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PTO/SB/01 (10-00)

Approved for use through 10/31/2002. OMB 0651-0032

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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**DECLARATION FOR UTILITY OR  
DESIGN  
PATENT APPLICATION  
(37 CFR 1.63)**

Declaration Submitted With Initial Filing       Declaration Submitted after Initial Filing (surcharge (37 CFR 1.16 (e)) required)  
**OR**

Attorney Docket Number	399483
First Named Inventor	Christopher M. Fender
<b><i>COMPLETE IF KNOWN</i></b>	
Application Number	10/079,468
Filing Date	February 19, 2002
Group Art Unit	Not Yet Assigned
Examiner Name	Not Yet Assigned

**As a below named inventor, I hereby declare that:**

My residence, post office address, and citizenship are as stated below next to my name

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

## USE OF INFRARED SPECTROSCOPY IN GENOTYPIC ANALYSIS

the specification of which *(Title of the Invention)*

is attached hereto

OR

was filed on (MM/DD/YYYY) 02-19-2002 as United States Application Number or PCT International

Application Number 10/079,468 and was amended on (MM/DD/YYYY) \_\_\_\_\_ (if applicable) \_\_\_\_\_

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims as amended specifically referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application.

I hereby claim foreign priority benefits under 35 U.S.C. 119(a)-(d) or 365(b) of any foreign application(s) for patent or inventor's certificate, or 365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent or inventor's certificate, or of any PCT international application having a filing date before that of the application on which priority is claimed.

Prior Foreign Application Number(s)	Country	Foreign Filing Date (MM/DD/YYYY) Country	Priority Not Claimed	Certified Copy Attached?	
				YES	NO
			<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>

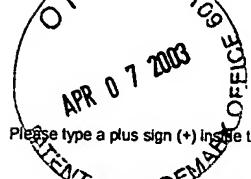
Additional foreign application numbers are listed on a supplemental priority data sheet PTO/SB/02B attached hereto:

I hereby claim the benefit under 35 U.S.C. 119(e) of any United States provisional application(s) listed below.

ApplicationNumber(s)	Filing Date (MM/DD/YYYY)	
60/269,474	February 16, 2001	<input type="checkbox"/> Additional provisional application numbers are listed on a supplemental priority data sheet PTO/SB/02B attached hereto.

[Page 1 of 2]

Burden Hour Statement: This form is estimated to take 21 minutes to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.



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PTO/SB/01 (10-00)

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## DECLARATION — Utility or Design Patent Application

Direct all correspondence to:		<input checked="" type="checkbox"/> Customer Number or Bar Code Label	30954	OR	<input type="checkbox"/> Correspondence address below
Name					
Address					
Address					
City			State	ZIP	
Country	Telephone			Fax	
I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.					
NAME OF SOLE OR FIRST INVENTOR:		<input type="checkbox"/> A petition has been filed for this unsigned inventor			
Given Name Christopher M.		Family Name or Surname Fender			
Inventor's Signature	<i>Christopher M. S</i>			Date 3-18-03	
Residence: City Columbia	State Missouri	Country United States	Citizenship United States		
Mailing Address 110 Maplewood Drive					
Mailing Address					
City Columbia	State Missouri	ZIP 65203	Country United States		
NAME OF SECOND INVENTOR:		<input type="checkbox"/> A petition has been filed for this unsigned inventor			
Given Name David A.		Family Name or Surname Slepker			
Inventor's Signature	<i>David Slepker</i>			Date 4-2-03	
Residence: City Columbia	State Missouri	Country United States	Citizenship United States		
Mailing Address 2012 S. Deerborn Circle					
Mailing Address					
City Columbia	State Missouri	ZIP 65211	65203	86	Country United States
<input type="checkbox"/> Additional Inventors are being named on the _____ supplemental Additional Inventor(s) sheet(s) PTO/SB/02A attached hereto.					

[Page 2 of 2]



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PTO/SB/81 (10-00)

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U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

## POWER OF ATTORNEY OR AUTHORIZATION OF AGENT

Application Number	10/079,468
Filing Date	February 19, 2002
First Name of Inventor	Christopher M. Fender
Group Art Unit	Not Yet Assigned
Examiner Name	Not Yet Assigned
Attorney Docket Number	399483

I hereby appoint:

Practitioners at Customer Number

30954

OR

Practitioner(s) named below:

Name	Registration Number

as my/our attorney(s) or agent(s) to prosecute the application identified above, and to transact all business in the Patent and Trademark Office connected therewith.

Please change the correspondence address for the above-identified application to:

The above-mentioned Customer Number.

OR

Firm or  
Individual Name

Address

Address

City

State

ZIP

Country

Telephone

Fax

I am the:

Applicant.

Assignee of record of the entire interest. See 37 CFR 3.71.

*Certificate under 37 CFR 3.73(b) is enclosed. (Form PTO/SB/96).*

### SIGNATURE of Applicant or Assignee of Record

Name Thomas R. Sharpe, Ph.D.

Signature Thomas R. Sharpe

Date 7/26/02

NOTE: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required.  
Submit multiple forms if more than one signature is required, see below\*.

\*Total of \_\_\_\_\_ forms are submitted.

Burden Hour Statement: This form is estimated to take 3 minutes to complete. Time will vary depending upon the needs of the individual case. Any Comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

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**STATEMENT UNDER 37 CFR 3.73(b)**Applicant/Patent Owner: Christopher M. Fender and David A. SleperApplication No./Patent No.: 10/079,468 Filed/Issue Date: February 19, 2002Entitled: Use of Infrared Spectroscopy In Genotypic AnalysisMISSOURI BOARD OF CURATORS, UNIVERSITY OF MISSOURI, a University

(Name of Assignee)

(Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

states that it is:

1.  the assignee of the entire right, title, and interest; or
2.  an assignee of an undivided part interest

in the patent application/patent identified above by virtue of either:

A.  An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the Patent and Trademark Office at Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.

OR

B.  A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as shown below:

1. From: \_\_\_\_\_ To: \_\_\_\_\_

The document was recorded in the United States Patent and Trademark Office at Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.

2. From: \_\_\_\_\_ To: \_\_\_\_\_

The document was recorded in the United States Patent and Trademark Office at Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.

3. From: \_\_\_\_\_ To: \_\_\_\_\_

The document was recorded in the United States Patent and Trademark Office at Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.

Additional documents in the chain of title are listed on a supplemental sheet.

Copies of assignments or other documents in the chain of title are attached.

[NOTE: A separate copy (i.e., the original assignment document or a true copy of the original document) must be submitted to Assignment Division in accordance with 37 CFR Part 3, if the assignment is to be recorded in the records of the USPTO. See MPEP 302.8]

The undersigned (whose title is supplied below) is empowered to sign this statement on behalf of the assignee.

23 May 2002

Date

Thomas R. Sharpe

Signature

Thomas R. Sharpe, Ph.D.

Typed or printed name

Executive Director, OTSP

Title

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

**ASSIGNMENT**

WHEREAS, We, Christopher M. Fender; a citizen of the United States of America; a resident of the City of Columbia; State of Missouri; and David A. Sleper; a citizen of the United States of Americas; a resident of the City of Columbia; State of Missouri, have invented a new and useful improvement in

**USE OF INFRARED SPECTROSCOPY IN GENOTYPIC ANALYSIS**

for which we have made application for Letters Patent of the United States, Serial No. 10/079,468, filed February 19, 2002; and

WHEREAS, the University of Missouri Board of Curators, a State University duly organized under the laws of the State of Missouri and having its principal place of business at 316 University Hall, Columbia, Missouri 65211, is desirous of acquiring an interest in, to and under said invention, said application, and any and all Letters Patent which may be granted for or upon said invention in the United States of America and all countries foreign thereto.

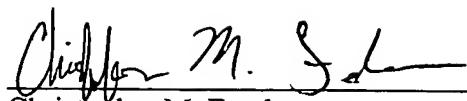
NOW THEREFORE, to all whom it may concern, be it known that for good and valuable consideration, the receipt of which is hereby acknowledged, we, Christopher M. Fender and David A. Sleper, have sold, assigned and transferred, and by these presents do sell, assign and transfer, unto the said University of Missouri Board of Curators, the full and exclusive right, title and interest, throughout the world, in, to and under the following:

- (a) said invention as fully set forth and described in the specification prepared, and executed by us preparatory to obtaining Letters Patent of the United States therefor;
- (b) said application;
- (c) any and all refilings, divisions, continuations and continuations-in-part of said application;
- (d) any and all Letters Patent of the Untied States of America which may issue from said application, refilings, divisions, continuations and continuations-in-part;

- (e) any and all reissues and reexaminations of said Letters Patent of the United States of America;
- (f) any and all applications for Letters Patent upon said invention which may hereafter be filed in any and all countries foreign to the United States of America;
- (g) any and all refilings, divisions and continuations of said foreign-filed applications;
- (h) any and all Letters Patent of countries foreign to the United States of America which may issue from the said foreign-filed applications, refilings, divisions and continuations; and
- (i) any and all extensions of, and additions to, said Letters Patent of countries foreign to the United States of America.

All of the above shall be held and enjoyed by said University of Missouri Board of Curators for its own use and benefit, and for its successors, legal representatives and assigns, to the full end of the term for which said Letters Patent may be granted, and we do hereby authorize and request the Commissioner of Patents and Trademarks to issue the said Letters Patent in accordance with this Assignment.

Signed this 18 day of March 2003.



Christopher M. Fender  
110 Maplewood Drive  
Columbia, Missouri 65203  
United States of America

*STATE OF* :  
*COUNTY OF* :  
*SS:*

On this 18<sup>th</sup> day of March, 2003, before me personally appeared Christopher M. Fender to me known to be the person described in and who executed the foregoing instrument as his free act and deed.

In witness whereof, I have hereunto set my hand and affixed my notarial seal the day and year last above written.

  
Notary Public

My commission expires:  
(SEAL)

MARLA L. BARRETT  
Notary Public - Notary Seal  
STATE OF MISSOURI  
Boone County  
My Commission Expires: Jan 22, 2006

Signed this 2 day of April, 2003.



David A. Sleper  
2012 S. Deerborn Circle  
Columbia, Missouri 65211  
United States of America

*STATE OF* :  
*COUNTY OF* : SS:

On this 2nd day of April, 2003, before me personally appeared David A. Sleper to me known to be the person described in and who executed the foregoing instrument as his free act and deed.

In witness whereof, I have hereunto set my hand and affixed my notarial seal the day and year last above written.

  
Notary Public

My commission expires:  
(SEAL)

MARLA L. BARRETT  
Notary Public - Notary Seal  
STATE OF MISSOURI  
Boone County  
My Commission Expires: Jan 22, 2006